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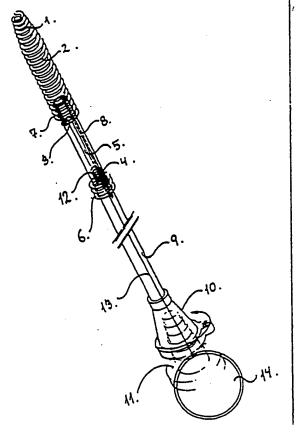
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(54) Title: DEVICE FOR THE PLACING OF A PARTIAL CATHETER IN A BODY CAVITY

(57) Abstract

Device consisting of an auxiliary catheter (9), a fastening element (13), and a blocking device (11), designed in such a way that a partial catheter (2) can be mounted and secured at the end of the auxiliary catheter until the partial catheter has been placed in the desired position in a body cavity, especially the urethra, after which the partial catheter can be detached from the auxiliary catheter by manipulation of the blocking device and the fastening element, so that only the partial catheter is left in the desired position in the body cavi-



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DEVICE FOR THE PLACING OF A PARTIAL CATHETER IN A BODY CAVITY.

The invention concerns a device comprising an auxiliary catheter and a fastening element with a blocking device for the placing of a partial catheter in a body cavity.

- The invention chiefly concerns an instrument for the placing of a partial catheter in the form of a spirally coiled metal wire in the urethra in men and especially in the part of the urethra that is located in the prostate. It will also be possible to apply the device according to the invention for the placing of partial catheters in other body cavities such as the oesphagus, the biliary passage, the intestine, or the trachea.
- Equipment for the placing of partial catheters in e.g. the
 biliary passage is known. A considerable disadvantage in
 the equipment already known is that it does not comprise
 an independent device for securing the partial catheter
 during the placing procedure. A further disadvantage in
 the equipment already known is that the equipment ends
 where the partial catheter begins, so that a very flexible
 partial catheter and particularly a spirally coiled metal
 wire catheter is very unstable during the process of
 placing.
- 25 The purpose of the present invention is to eliminate these disadvantages.

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fastening element can be provided with one or more radiopaque markers.

In the following the invention will be described in greater dețail with reference to the drawing, where

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Fig. 1 shows a perspective picture of a preferred embodiment of a partial catheter.

Fig. 2 shows a perspective picture of a preferred embodiment of the auxiliary catheter.

- 15 Fig. 3 shows a perspective picture of a preferred embodiment of a blocking device for the fastening element in relation to the auxiliary catheter and the partial catheter.
 - Fig. 4 shows a perspective picture of a preferred embodiment of the fastening element.
- 25 Fig. 5 shows a perspective picture of all the assembled parts of a preferred embodiment of the device in accordance with the invention.
- In the drawing 1 indicates a tapered end coil of a spirally coiled metal wire catheter 2, preferably made of stainless, acid-resisting steel with a coating of gold. 3 and 4 indicate rods bent radially to the centre of the catheter and connected by a longitudinal, preferably 20 mm long rod 5. The rods 3 and 4 are preferably shifted 180

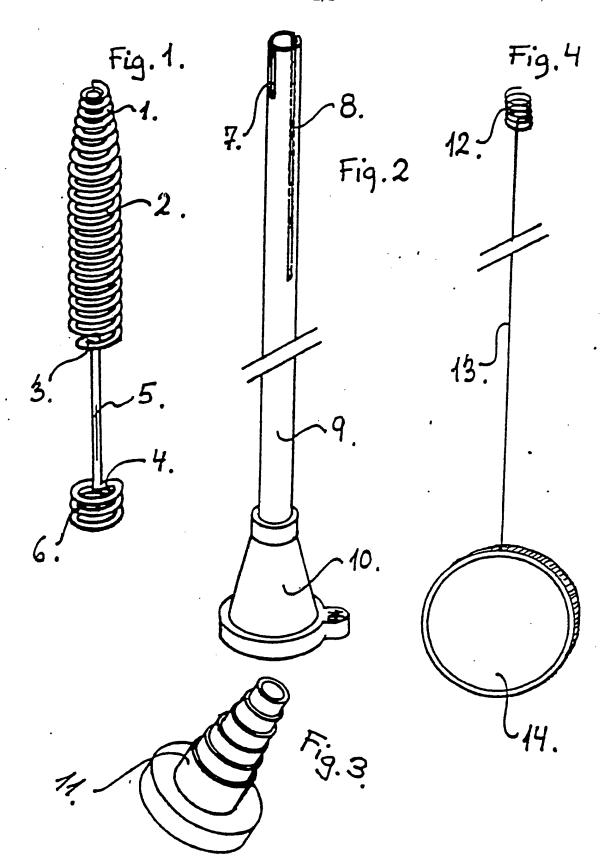
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cast around the lower end of the fastening element 13.

After the mounting further rotation of the fastening element 13 is prevented by the funnel 11 being pressed partly into the interior of the conical part 10 of the auxiliary catheter 9, so that the disc-shaped handle 14 is blocked. The blocking is further secured by the fact that after the mounting much more than five mm of the funnel 11 protrudes from the conical part 10 of the auxiliary catheter 9, so that rotation of the handle is blocked.

- 6. Device according to claim 4, characterized in that the wire is made of stainless steel.
- 7. Device according to claim 1, characterized in that the auxiliary catheter is made of a soft and flexible material.
- 8. Device according to claim 1, c h a r a c t e r i z e d in that the blocking device consists of an externally conical element and a funnel with the same taper, so that the cone can be pressed into the funnel and thereby secure a wire between the two parts, and where the wire is provided with a fixed plate, which prevents rotation of the wire as it is blocked by the part of the cone that protrudes from the funnel when the cone and the funnel have been pressed together.
- 9. Device according to claims 1, 3, 4, 5 and 8, c h a r a c t e r i z e d in that a spirally coiled partial 20 catheter with radially arranged rods and a central, longitudinal rod is connected with a spirally coiled part of the fastening element by means of a spiral movement, while at the same time an auxiliary catheter provided with longitudinal slots prevents rotary displacement of 25 the partial catheter in relation to the auxiliary catheter as the radially arranged rods of the partial catheter are secured by the slots. At the same time, rotary displacement and axial displacement of the fastening element in relation to the auxiliary catheter are 30 prevented by the blocking device according to claim 8.



INTERNATIONAL SEARCH REPORT

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III. DOCUMENTS CONSIDERED TO BE RELEVANT	
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